

## PATENT COOPERATION TREATY

## PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference <b>BA9327PCT</b>	<b>FOR FURTHER ACTION</b> see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. <b>PCT/US2005/002462</b>	International filing date (day/month/year) <b>21/01/2005</b>	(Earliest) Priority Date (day/month/year) <b>23/01/2004</b>
Applicant <b>E. I. DUPONT DE NEMOURS AND COMPANY</b>		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2. ☐ **Certain claims were found unsearchable** (See Box II).

3. ☐ **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the **drawings**,

- a. the figure of the **drawings** to be published with the abstract is Figure No. \_\_\_\_\_

☐ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

BEST AVAILABLE COPY

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/002462

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D213/61 C07D213/73 C07D213/82

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	HERTOG DEN H J ET AL: "THE CHLOROPYRIDINES" RECUEIL DES TRAVAUX CHIMIQUES DES PAYS-BAS, ELSEVIER SCIENCE PUBLISHERS. AMSTERDAM, NL, vol. 69, 1950, pages 673-699, XP008048639 ISSN: 0165-0513 cited in the application page 689, paragraph 4 - page 690, paragraph 3	1,2
A	DE 16 95 659 B (RUETGERSWERKE AG) 16 December 1971 (1971-12-16) page 3; claim 1 ----- -/--	1



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents:

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*8\* document member of the same patent family

Date of the actual completion of the international search

6 July 2005

Date of mailing of the international search report

03/08/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Rufet, J

## INTERNATIONAL SEARCH REPORT

International Application No

PCT/US2005/002462

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 3 838 136 A (BLANK A,US) 24 September 1974 (1974-09-24) cited in the application the whole document	13
A	----- ECKEHARD V. ET AL.: "Synthesis of orellanine, the lethal poison of a toadstool" TETRAHEDRON LETTERS., vol. 26, no. 40, 1985; pages 4903-4906, XP002334741 NLELSEVIER SCIENCE PUBLISHERS, AMSTERDAM. page 4903, last paragraph; page 4904, scheme	13
A	----- DATABASE CROSSFIRE BEILSTEIN 'Online! BEISTEIN INSTITUT ZUR FOEDERUNG DER CHEMISCHEN WISSENSCHAFTEN, DE; 1988, XP002334748 Database accession no. BRN 1098214 (5420924 reaction ID) abstract	13
A	& CHEM. BER., vol. 69, 1936, pages 2593-2604, cited in the application	
A	----- US 4 082 749 A (QUADBECK-SEEGER ET AL) 4 April 1978 (1978-04-04) cited in the application abstract; claim 1; example 9	20
A	----- DATABASE CROSSFIRE BEILSTEIN 'Online! BEISTEIN INSTITUT ZUR FOEDERUNG DER CHEMISCHEN WISSENSCHAFTEN, DE; 1988, XP002334749 Database accession no. BRN 383619 (547110 reaction ID) abstract & MONATSH. CHEM., vol. 16, 1895, page 58, -----	20

BEST AVAILABLE COPY

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2005/002462

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
DE 1695659	B	16-12-1971	NONE
US 3838136	A	24-09-1974	NONE
US 4082749	A	04-04-1978	DE 2328757 A1 09-01-1975
		DE 2357749 A1 28-05-1975	
		DE 2400111 A1 17-07-1975	
		BE 815971 A1 06-12-1974	
		CA 1019746 A1 25-10-1977	
		CH 609031 A5 15-02-1979	
		FR 2232534 A1 03-01-1975	
		GB 1467839 A 23-03-1977	
		IT 1017606 B 10-08-1977	
		JP 1196161 C 12-03-1984	
		JP 50030801 A 27-03-1975	
		JP 58021616 B 02-05-1983	
		NL 7407031 A 10-12-1974	

BEST AVAILABLE COPY